

CHAIRMAN Resource

From: Jeffrey Steinmetz <jeffmsteinmetz@yahoo.com>
Sent: Wednesday, October 29, 2014 1:16 PM
To: Csontos, Aladar; 'dgilmore@cox.net'
Cc: Woollen, Mary; CHAIRMAN Resource; Lombard, Mark; Dunn, Darrell
Subject: Re: Sandia transport of DCI report

Hello Al,

Thanks for the reply. However, this Sandia paper does address your concerns of "low temperature brittle fracture". Drop test were performed at both -29C and - 40C. Per the Sandia National Laboratories paper the test far exceed NRC regulations and IAEA specs.

Thanks,
Jeff

On Wednesday, October 29, 2014 6:09 AM, "Csontos, Aladar" <Aladar.Csontos@nrc.gov> wrote:

Hi Jeff,

Thank you for the info and thanks for taking the time to talk with me during the break.

I'll definitely take a look at the report. I know some of the authors very well, so I can go direct to the source too. The issue that I brought to your attention was low temperature brittle fracture, not ambient or elevated temperature conditions.

Thanks,
Al

From: Jeffrey Steinmetz [<mailto:jeffmsteinmetz@yahoo.com>]
Sent: Wednesday, October 29, 2014 12:31 AM
To: Donna Gilmore <dgilmore@cox.net>; Csontos, Aladar
Cc: Woollen, Mary; CHAIRMAN Resource; Lombard, Mark; Dunn, Darrell
Subject: Re: Sandia transport of DCI report

Hello Al,

I sincerely hope you will take the time to read this Sandia paper. As a leading NRC regulator it is imperative you have all the data. Even more importantly your recommendations and public comments should be based on scientific study and not US nuclear power industry preference. The NRC and SCE continue to reconstitute disproven information from other cask suppliers. If this continues the NRC will not be able to keep the public safe from the long term onsite storage issues associated with high burn up spent nuclear fuel.

The Castor Cask use Ductile Cast Iron (DCI) and DCI is not subject to brittle issues commonly associated with cast iron. It is important that you, your staff, and your boss have all the facts concerning the use of DCI cask for radioactive material packaging. After talking with you last night and discussing your concerns about the Castor cask being brittle, it was clear you have not read all the material available covering cask constructed using DCI.

The conclusions of this study are not limited to Sandia and are also shared by ASTM, ASME, and IAEA. As result, I expect this paper and the contents to be taken seriously and if the NRC is not in agreement with Sandia National Laboratories, ASTM, ASME, and the IAEA, I request and expect to see a **scientific paper** refuting the content in this paper. For the well being of the public you are supposed to protect, please do not send me an email with an opinion. I am requesting a *scientific paper*, with all the supporting data and references.

Please use the link below and find the PDF icon in the upper right corner . The document is 4.65 MB and was refused by your email system for being too large.

"Fracture Mechanics Based Design for Radioactive Material Transport Packagings Historical Review"

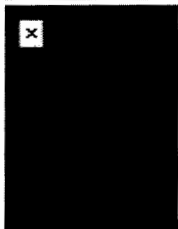
Authors

Jeffrey A. Smith - "International Nuclear Safety Department"

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Ken Sorenson and Paul McConnel -"Transportation Development Department"

SciTech Connect: Fracture mechanics based design for radioactive material transport packagings -- Historical review



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Thank you,

Jeff Steinmetz